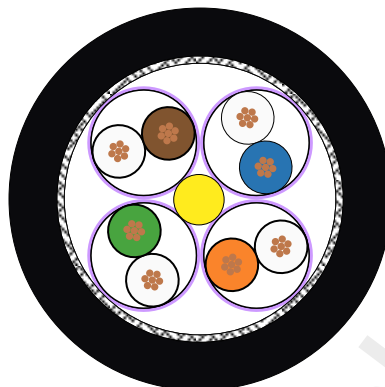


# SeaLine

## CAT 7 (SHF1)

Cable type: 02YSCH 4X2X0.5/1.00-100 LI PIMF



### Design

#### Wire

Stranded bare copper wire 7 X 0.16 (26 AWG)  
Insulation of foamed Polyethylene (PE) with skin

∅ 0.48 mm (0.019 in dia)  
∅ 1.0 mm (0.039 in dia)

#### Screened pair

2 wires twisted to a pair  
Alulaminat foil overlapped, applied longitudinally

#### Core

Kevlar yarns as central element  
4 screened pairs twisted  
Sequence of colors: WH/BU-WH/OG-WH/GN-WH/BN  
Shield braiding of tinned copper wires 0.1 mm dia (38 AWG)  
Coverage about 65%

∅ 5.1 mm (0.201 in dia)

#### Jacket

Thermoplastic copolymer (FRNC) BK  
Wall thickness about 1.0 mm (IEC 60092-376)

∅ (7.1 ±0.2) mm (0.280 ±0.008 in dia)

Printing: "sequential length in metres" \* BizLink **SeaLine** SCG \* L45467-J415-C246 \* 02YSCH 4X2X0.5/1.00-100 LI PIMF CAT7 IEC 60332-3-22 SHF1 \* "internal lot number"

### Electrical data at 20°C

Loop resistance	≤	290	Ohm/km
Insulation resistance	≥	500	MOhm*km
Signal run time	≤	5.3	ns/m
Characteristic impedance 100 MHz		(100 ±5)	Ohm
Surface transfer impedance 10 MHz		10	mOhm/m
Operating voltage (peak)	≤	100	V
Test voltage (wire/wire/screen rms 50Hz 1 min)		1000	V

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Frequency	1	4	10	16	20	31.25	62.5	100	155	200	300	600
Next (dB)	80	80	80	80	80	80	75.1	72.4	69.6	67.9	65.3	60.8
PSNext (dB)	77	77	77	77	77	77	72.5	69.4	66.6	64.9	62.3	57.8
ELFext (dB)	80.0	80.0	74.0	69.9	68	64.1	58.1	54	50.2	48.0	44.5	38.4
PSELFext (dB)	77	77	71	66.9	65	61.1	55.1	51	47.2	45.0	41.5	35.4
Attenuation dB/100m)	2.9	5.5	8.5	10.8	12.1	15.2	21.7	27.8	35.0	40.1	50.0	73.3
Frequency	4	8	10	16	20	31.25	62.5	100	155	250	350	600
Return loss (dB)	23.1	24.5	25	25	25	23.6	21.5	20.1	18.8	17.3	17.3	17.3

Electrical requirements acc. to. EN 50288-4-2 & IEC 61156-6

### Mechanical and thermal characteristics

Conductor material acc. to DIN EN 13602 Cu-ETP-A...  
 Screen material acc. to DIN EN 13602 Cu-ETP-A...-B  
 Insulating material acc. to DIN EN 50290-2-23 (VDE 0819), table 2/A (HD 624.3) (02Y)  
 Jacket material acc. to IEC 60092-360 (IEC 60092-359) SHF1  
 Oil resistant acc. to IEC 60811-404 (4 hours / 70°C)  
 Flame retardant acc. to IEC 60332-1-2  
 Flame retardant acc. to IEC 60332-3-22 (Cat. A)  
 Flame retardant acc. to IEC 60332-3-24 (Cat. C)

Approval for Marine and Offshore applications  
 DNV Certificate No. TAE000018C

### Other characteristics

RoHS compliant (Directive 2011/65/EU & 2015/863/EU RoHS 3)  
 Low Smoke, Fire retardant, Zero Halogen  
 Corrosivity of fumes acc. to IEC 60754-2  
 Smoke-density acc. to IEC 61034  
 UV-resistant

Permissible temperature range

Transport, installation and operating: -40 °C (-40 °F) up to 80 °C (176 °F)

Min. bending radius allowed: repeated 10X ø, single 5X ø

Weight about : 56 kg/km (38 lb/1000ft)

### Designation of order

L45467-J415-C246  
 220787  
 02YSCH 4X2X0.5/1.00-100 LI PIMF SW  
 1000 m (3281 ft) on non-returnable reel

Product has not been tested and classified according to the CPR (EU/305/2011).  
 The product shall not be permanently installed in buildings in the EU.